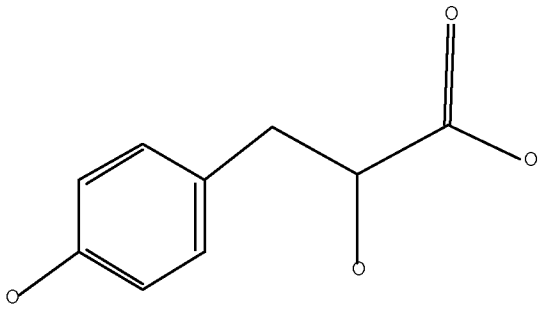
L1 STRUCTURE UPLOADED

L1 STRUCTURE UPLOADED

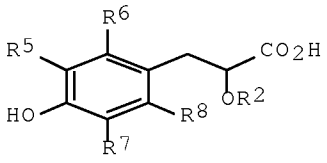
=> d l1
L1 HAS NO ANSWERS
L1 STR



L2 50 S L1 SSS SAM
L3 12733 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 08:08:02 ON 28 JUN 2010
L4 1709 S L3/PREP
L5 1011 S L4 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L6 164 S L4 AND (ASYMMETRIC)
L7 1011 S L4 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L8 91 S L6 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L9 1 S US 20070142472/PN
L10 1709 S L3/PREP
L11 51 S L10 AND HYDROGENATION/IT
L12 34 S L11 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L13 24 S L11 AND (ASYMMETRIC OR ?SELECTIV?)
L14 10 S L13 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)

L14 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
GI



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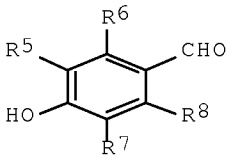


II

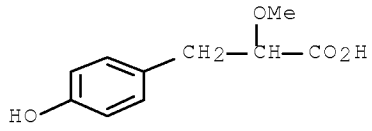
AB Title compds. (I; R2 = alkyl; R5-R8 = H, substituent) and salts thereof were prepared by reaction of benzaldehydes (II; R1 = protective group; R5-R8 as defined above) with R2OCH2CO2R3 (R3 = hydrocarbyl; R2 as defined above), hydrolysis of the resulting cinnamate esters to give cinnamic acids, asym. hydrogenation, and

O-deprotection. Thus, a mixture of 4-benzyloxybenzaldehyde, Me methoxyacetate, and NaOMe was refluxed 5 h in MeOH to give 80% Me 3-(4-benzyloxyphenyl)-2-methoxyacrylate. This was refluxed 2 h with 1N NaOH in MeOH to give 85% 3-(4-benzyloxyphenyl)-2-methoxyacrylic acid Na salt. The latter was hydrogenated in MeOH over [Ru(p-cymene)[(S)-dm-segphos]]Cl in MeOH at 5 MPa and 60° for 16 h to give Na 3-(4-hydroxyphenyl)-2-methoxypropionate in 20% yield and 92.9% enantiomeric excess.

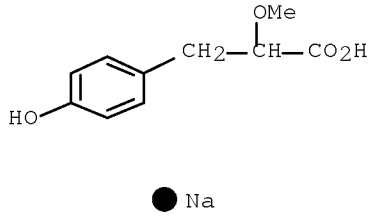
ACCESSION NUMBER: 2005:490344 CAPLUS Full-text
DOCUMENT NUMBER: 143:43684
TITLE: Process for preparation of optically active 3-(4-hydroxyphenyl)propionic acids by reaction of protected 4-hydroxybenzaldehydes and glycolic acid derivatives to give cinnamates and asymmetric hydrogenation of the latter.
INVENTOR(S): Yokozawa, Tohru; Shimizu, Hideo; Fujiwara, Takahiro; Ino, Yasunori
PATENT ASSIGNEE(S): Takasago International Corporation, Japan
SOURCE: PCT Int. Appl., 95 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005051882	A1	20050609	WO 2004-JP17998	20041126 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1687250	A1	20060809	EP 2004-819490	20041126 <--

R: CH, DE, ES, FR, GB, LI, IE
JP 2007512222 T 20070517 JP 2006-520429
20041126 <--
US 20070142472 A1 20070621 US 2006-578744
20060510 <--
PRIORITY APPLN. INFO.: JP 2003-398201 A
20031127 <--
WO 2004-JP17998 W
20041126
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 143:43684; MARPAT 143:43684
IT 477982-28-8P 853562-54-6P 853562-55-7P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation);
PREP
(Preparation)
(optically active; preparation of optically active
hydroxyphenylpropionates
by reaction of protected hydroxybenzaldehydes and glycolic acid
derivs.
to give cinnamates and asym. hydrogenation of the
latter)
RN 477982-28-8 CAPLUS
CN Benzenepropanoic acid, 4-hydroxy-α-methoxy- (CA INDEX NAME)



RN 853562-54-6 CAPLUS
CN Benzenepropanoic acid, 4-hydroxy-α-methoxy-, sodium salt (1:1)
(CA
INDEX NAME)

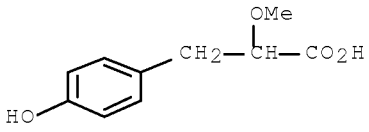


RN 853562-55-7 CAPLUS
CN Benzenepropanoic acid, 4-hydroxy-α-methoxy-, compd. with
cyclohexanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

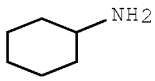
CRN 477982-28-8

CMF C10 H12 O4

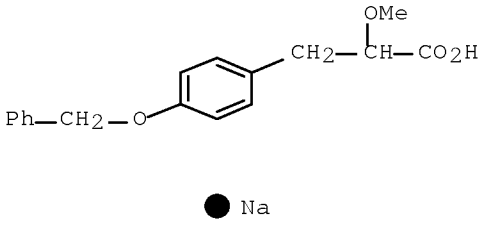


CM 2

CRN 108-91-8
CMF C6 H13 N

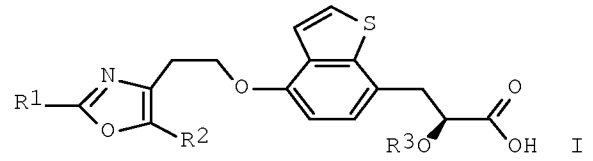


IT 853562-58-0P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of optically active hydroxyphenylpropionates by reaction of
protected hydroxybenzaldehydes and glycolic acid derivs. to give
cinnamates and asym. hydrogenation of the latter)
RN 853562-58-0 CAPLUS
CN Benzenepropanoic acid, α-methoxy-4-(phenylmethoxy)-, sodium salt (1:1) (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
GI



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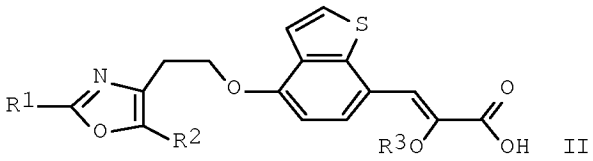

II

AB The present invention is concerned with a novel process for the preparation of compds. of formula (I) (wherein R1 = aryl or heteroaryl; R2, R3 = lower alkyl) or salts thereof comprising catalytic asym. hydrogenation of a compound of formula (II) in the presence of a catalyst comprising ruthenium or rhodium and a chiral diphosphine ligand or comprising rhodium and a chiral diphosphine ligand. The compds. of formula I and the corresponding salts and/or esters are pharmaceutically active substances. Thus, (Z)-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4- yl)ethoxy]benzo[b]thiophen-7-yl]-2-propenoic acid Me ester. Thus, a suspension of 6.39 g Me 2-methoxy-2-(triphenylphosphonium)acetate chloride (prepared from Me 2-chloro-2-methoxyacetate and triphenylphosphine), 0.68 g lithium methylate, and 3.89 g 4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophene-7-carboxaldehyde in 40 mL DMF was heated for 23 h at 75°, and cooled to 0° to give, after filtering the formed white crystals, washing with 40 mL methanol, drying at 20° and 1 mbar for 16 h, 3.54 g (73 %) (Z)-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]-2-propenoic acid Me ester (III) (97.5% purity). III (45.81 g) in 920 mL methanol was treated with a solution of 40.15 g KOH in 92 mL H2O and stirred for 90 min at 100° to give the yellowish reaction solution which was cooled to 60°, treated dropwise with 54 mL concentrate HCl within 5 min (pH 3-4), cooled to 0°, and filtered to give 41.66 g (95%) (Z)-2-methoxy-3-[4-[2-(5-methyl-2- phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]-2-propenoic acid (IV) (purity >99.9 %). IV (7.0 g), 20 mL CH2Cl2, 10 mL MeOH, 3.21 mL 1 M aqueous NaOH solution, and a solution of 6.51 mg (0.00804 mmol) of Ru(OAc)2((S)-TMBTP) [TMBTP = 4,4'-bis(diphenylphosphino)-2,2',5,5'-tetramethyl-3,3'- dithiophene] in 2 mL MeOH were mixed, rendered homogeneous, and treated with 18 mL MeOH to give a suspension which was autoclaved at 40° and 30 bar H for 6 h to give 7.27 g (S)-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid (97.1% purity, 93% enantiomeric purity).

ACCESSION NUMBER: 2005:284199 CAPLUS Full-text
DOCUMENT NUMBER: 142:355259
TITLE: Process for the production of chiral propionic acid
derivatives
INVENTOR(S): Puentener, Kurt; Scalone, Michelangelo
PATENT ASSIGNEE(S): Hoffman-La Roche Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 17 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050070714	A1	20050331	US 2004-933176	20040902 <--
US 7262303	B2	20070828		
CA 2539176	A1	20050407	CA 2004-2539176	20040921 <--
CA 2539176	C	20100105		
WO 2005030764	A1	20050407	WO 2004-EP10568	20040921 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1670792	A1	20060621	EP 2004-765444	20040921 <--
EP 1670792	B1	20071219		
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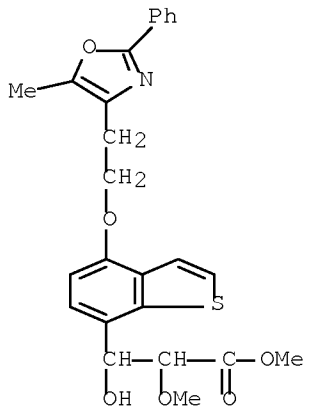
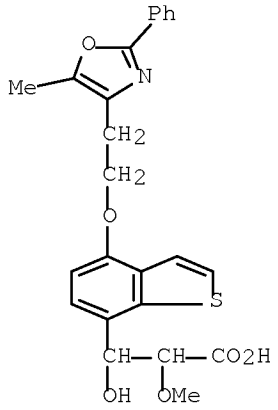
CN 1860115	A	20061108	CN 2004-80028176	20040921 <--
JP 2007506800	T	20070322	JP 2006-530000	20040921 <--
AT 381561	T	20080115	AT 2004-765444	

20040921 <--
ES 2297463 T3 20080501 ES 2004-765444
20040921 <--
MX 2006003365 A 20060608 MX 2006-3365
20060324 <--
KR 2006056405 A 20060524 KR 2006-706097
20060329 <--
KR 854886 B1 20080828
US 20070249842 A1 20071025 US 2007-811071
20070608 <--
US 7365207 B2 20080429
PRIORITY APPLN. INFO.: EP 2003-21700 A
20030929 <--
US 2004-933176 A3
20040902
WO 2004-EP10568 W
20040921
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 142:355259; MARPAT 142:355259
IT 849150-54-5P, 3-Hydroxy-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid methyl ester
849150-60-3P, 3-Hydroxy-2-methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of chiral (benzothiophenyl)propionic acid derivative
by asym. hydrogenation of
(benzothiophenyl)propenoic acid derivative in presence of chiral ruthenium
or rhodium phosphine complex)
RN 849150-54-5 CAPLUS
CN Benzo[b]thiophene-7-propanoic acid, β-hydroxy-α-methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-, methyl ester (CA INDEX NAME)



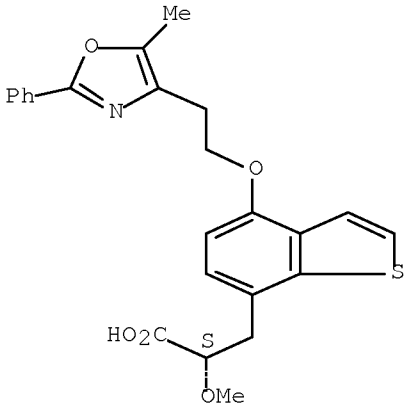
RN 849150-60-3 CAPLUS

CN Benzo[b]thiophene-7-propanoic acid,
β-hydroxy-α-methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-
(CA INDEX NAME)



IT 475479-34-6P, (S)-2-Methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid 849150-56-7P, (S)-2-Methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid (S)-phenylethylamine salt
849150-58-9P, (S)-2-Methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid cinchonidine salt
849150-59-0P, (R)-2-Methoxy-3-[4-[2-(5-methyl-2-phenyloxazol-4-yl)ethoxy]benzo[b]thiophen-7-yl]propionic acid 881663-41-8P
881663-49-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral (benzothiophenyl)propionic acid derivative by
asym. hydrogenation of (benzothiophenyl)propenoic
acid derivative in presence of chiral ruthenium or rhodium phosphine
complex)
RN 475479-34-6 CAPLUS
CN Benzo[b]thiophene-7-propanoic acid,
α-methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-, (αS)-
(CA INDEX NAME)

Absolute stereochemistry.

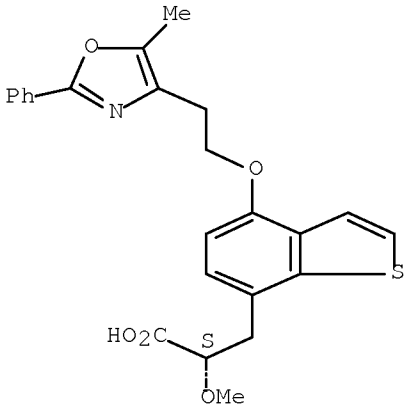


RN 849150-56-7 CAPLUS
CN Benzo[b]thiophene-7-propanoic acid, α-methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-, (αS)-, compd. with (αS)-α-methylbenzenemethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 475479-34-6
CMF C24 H23 N O5 S

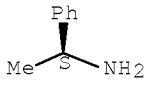
Absolute stereochemistry.



CM 2

CRN 2627-86-3
CMF C8 H11 N

Absolute stereochemistry. Rotation (-).



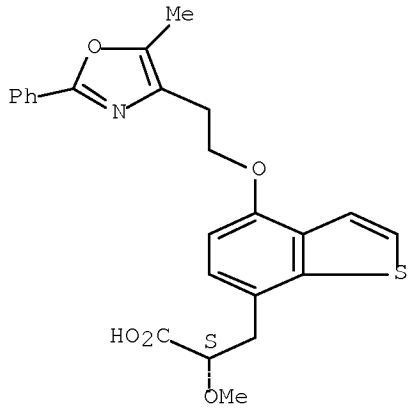
RN 849150-58-9 CAPLUS

CN Cinchonan-9-ol, (8α,9R)-, mono[(αS)-α-methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]benzo[b]thiophene-7-propanoate] (salt)
(9CI) (CA INDEX NAME)

CM 1

CRN 475479-34-6
CMF C24 H23 N O5 S

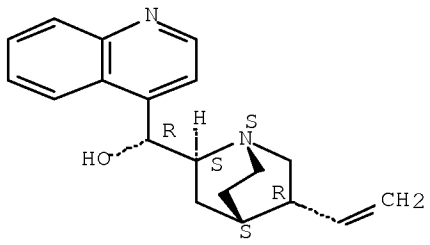
Absolute stereochemistry.



CM 2

CRN 485-71-2
CMF C19 H22 N2 O

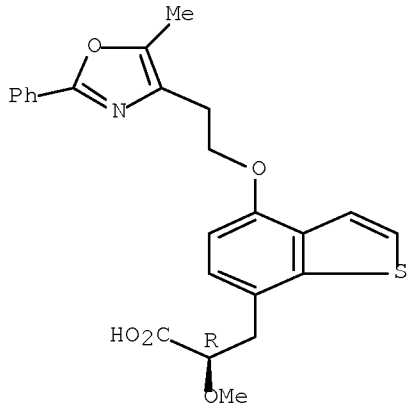
Absolute stereochemistry. Rotation (-).



RN 849150-59-0 CAPLUS

CN Benzo[b]thiophene-7-propanoic acid, α-methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-, (αR)- (CA INDEX NAME)

Absolute stereochemistry.

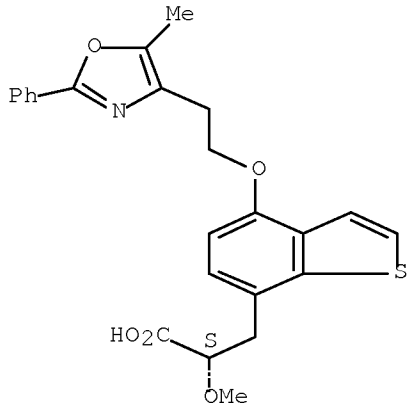


RN 881663-41-8 CAPLUS
CN Benzo[b]thiophene-7-propanoic acid, α-methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]-, (αS)-, compd. with (αR)-α-[(1S)-1-aminoethyl]benzenemethanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 475479-34-6
CMF C24 H23 N O5 S

Absolute stereochemistry.

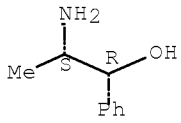


CM 2

CRN 492-41-1

CMF C9 H13 N O

Absolute stereochemistry. Rotation (-).



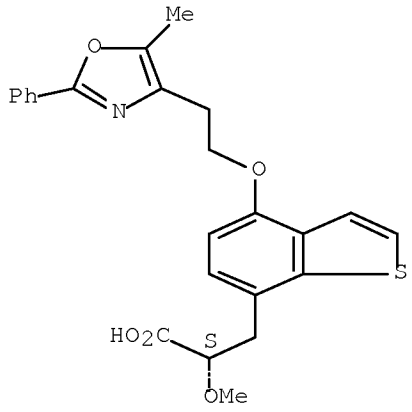
RN 881663-49-6 CAPLUS

CN Cinchonan-9-ol, 6'-methoxy-, (8α,9R)-, mono[(αS)-α-methoxy-4-[2-(5-methyl-2-phenyl-4-oxazolyl)ethoxy]benzo[b]thiophene-7-propanoate] (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 475479-34-6
CMF C24 H23 N O5 S

Absolute stereochemistry.



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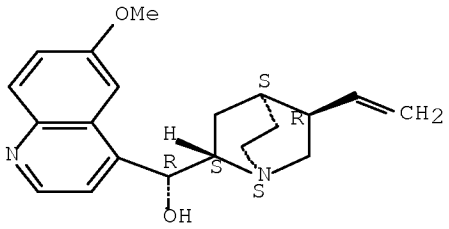
CRN 130-95-0
CMF C20 H24 N2 O2

Absolute stereochemistry.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

AB The present invention discloses an improve process for the preparation of (S)-(-)- and (R)-(+)-3-aryl-2-hydroxypropanoic acid derivs. without any resolution involved via copper complexation and selective O-benzylation of D- or L-tyrosine, diazotization of O-benzyl-D- or -L-tyrosine, and alkylation. Thus, 5 kg L-tyrosine, 4 kg KOH, and 4.3 kg copper sulfate pentahydrate were stirred at 60-66° in 10 L H2O, cooled, treated with 20 L DMF and then slowly with 4.2 kg benzyl chloride at 50-60°, cooled to 26-28°, followed by filtration and washing with H2O, to give 8.2 kg O-benzyl-L-tyrosine copper complex. The O-benzyl-L-tyrosine copper complex was added to H2O, treated with 5.8 L 35% concentrated HCl with stirring, followed by filtration, washing with H2O and 10% aqueous NH3, and drying to give 4.3 kg O-benzyl-L-tyrosine (54.5% yield). O-benzyl-L-tyrosine (500 g) was suspended in 6.25 L dioxane, treated with dilute aqueous H2SO4 (540 g, 5.53 mol, 2.5 L H2O) at room temperature, cooled to 0-2° in an ice salt bath, treated with aqueous NaNO2 solution (636 g, 09.22 mol) at 0°, and stirred for 24 h below 30° to give, after workup, (S)-(-)-2-hydroxy-3-(4-benzyloxyphenyl)propanoic acid (I). A mixture of 500 g I, 811 g KOH, and 5 L DMSO was cooled in an ice bath, followed by adding 1.9 kg di-Et sulfate through a dropping funnel at 8-10°, and the resulting mixture was stirred till completion of the reaction to give, after workup, 500 g (S)-(-)-Et 2-ethoxy-3-(4-benzyloxyphenyl)propanoate (98.6% chemical purity and 97.36% enantiomeric purity).

ACCESSION NUMBER: 2005:182608 CAPLUS Full-text
DOCUMENT NUMBER: 142:279950
TITLE: Process for preparing 3-aryl-2-hydroxypropanoic acid derivatives without resolution
INVENTOR(S): Barot, Vijay Kumar Gajubhai; Kothari, Himanshu Madhusudanbhai; Lohray, Braj Bhushan; Lohray, Vidya Bhushan
PATENT ASSIGNEE(S): Cadila Healthcare Limited, India
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005019152	A2	20050303	WO 2004-IN156	20040604 <--
WO 2005019152	A3	20050811		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
IN 2003MU00586	A	20050211	IN 2003-MU586	20030606 <--
IN 220646	A1	20080815		
AU 2004266204	A1	20050303	AU 2004-266204	20040604 <--
CA 2527953	A1	20050303	CA 2004-2527953	20040604 <--
EP 1636164	A2	20060322	EP 2004-785914	20040604 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004011409	A	20060725	BR 2004-11409	20040604 <--
JP 2006527186	T	20061130	JP 2006-508489	20040604 <--
MX 2005013216	A	20060309	MX 2005-13216	20051206 <--
PRIORITY APPLN. INFO.:			IN 2003-MU586	A 20030606 <--
			WO 2004-IN156	W 20040604

OTHER SOURCE(S): CASREACT 142:279950; MARPAT 142:279950

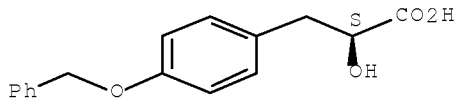
IT 162919-37-1P, (S)-(-)-2-Hydroxy-3-(4-benzyloxyphenyl)propanoic acid 251454-50-9P, (S)-(-)-Ethyl 2-ethoxy-3-(4-benzyloxyphenyl)propanoate 267228-40-0P,

(S)-(-)-Ethyl 2-hydroxy-3-(4-benzyloxyphenyl)propanoate 373368-68-4P, (R)-(+)-2-Hydroxy-3-(4-benzyloxyphenyl)propanoic acid 847268-21-7P, (R)-(+)-Ethyl 2-ethoxy-3-(4-benzyloxyphenyl)propanoate
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of chiral 3-aryl-2-hydroxypropanoic acid derivs. without resolution via copper complexation and selective O-benzylation of D- or L-tyrosine, diazotization of O-benzyl-D- or -L-tyrosine, and alkylation)

RN 162919-37-1 CAPLUS

CN Benzenepropanoic acid, α-hydroxy-4-(phenylmethoxy)-, (αS)- (CA INDEX NAME)

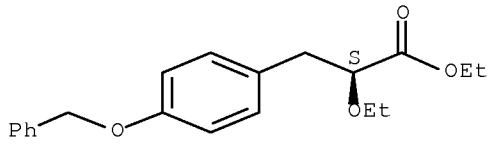
Absolute stereochemistry. Rotation (-).



RN 251454-50-9 CAPLUS

CN Benzenepropanoic acid, α-ethoxy-4-(phenylmethoxy)-, ethyl ester, (αS)- (CA INDEX NAME)

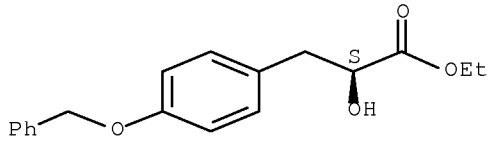
Absolute stereochemistry. Rotation (-).



RN 267228-40-0 CAPLUS

CN Benzenepropanoic acid, α-hydroxy-4-(phenylmethoxy)-, ethyl ester, (αS)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

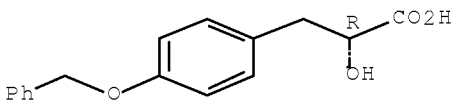


RN 373368-68-4 CAPLUS

CN Benzenepropanoic acid, α-hydroxy-4-(phenylmethoxy)-, (αR)-

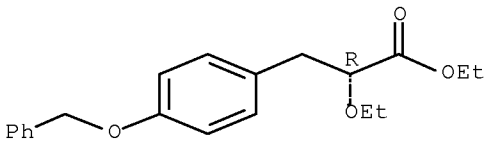
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



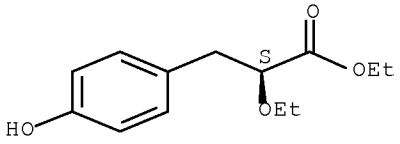
RN 847268-21-7 CAPLUS
CN Benzenepropanoic acid, α-ethoxy-4-(phenylmethoxy)-, ethyl ester, (αR)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 222555-06-8P, (S)-(-)-Ethyl 2-ethoxy-3-(4-hydroxyphenyl)propanoate
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral 3-aryl-2-hydroxypropanoic acid derivs. without resolution via copper complexation and selective O-benzylation of D- or L-tyrosine, diazotization of O-benzyl-D- or -L-tyrosine, and alkylation)
RN 222555-06-8 CAPLUS
CN Benzenepropanoic acid, α-ethoxy-4-hydroxy-, ethyl ester, (αS)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



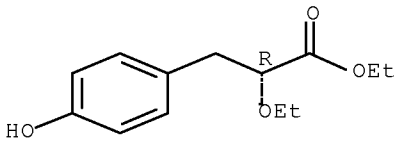
IT 222555-05-7P, (R)-(+)-Ethyl 2-ethoxy-3-(4-hydroxyphenyl)propanoate
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral 3-aryl-2-hydroxypropanoic acid derivs. without

resolution via copper complexation and selective O-benzylation of D- or L-tyrosine, diazotization of O-benzyl-D- or -L-tyrosine, and alkylation)

RN 222555-05-7 CAPLUS

CN Benzenepropanoic acid, α-ethoxy-4-hydroxy-, ethyl ester, (αR)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

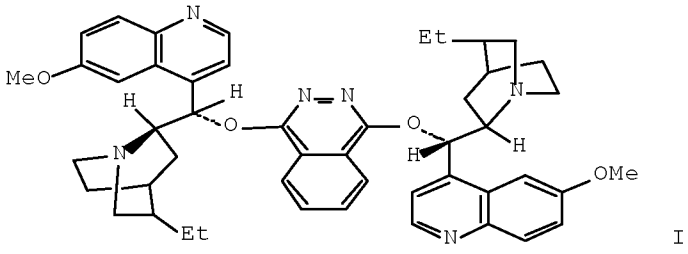


OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

GI



I

AB Osmium-catalyzed methods of addition to an olefin are studied. In the method of asym. dihydroxylation of the present invention, an olefin, a chiral ligand, an organic solvent, an aqueous solution, a base, a ferricyanide salt and an osmium-containing compound are combined. The chiral ligand is an alkaloid or alkaloid derivative linked to an organic substituent of at least 300 daltons mol. weight through a planar aromatic spacer group. The organic substituent can be another alkaloid or alkaloid derivative With the described chiral ligands, asym. dihydroxylation of olefins with high yields and enantiomeric excesses are achieved. Thus, dihydroquinidine was treated with 1,4-dichlorophthalazine in DMF containing NaH to give 1,4-bis(9'-O-dihydroquinidyl)phthalazine

(I). To a well stirred solution of I, a solution of potassium ferricyanide, K2CO3, OsO4 in toluene was added a Me3COH-H2O solution of 1-decene, the solution was stirred for 24 h at 0° followed by addition of sodium sulfite to give 83% 1,2-decanediol with 84% ee.

ACCESSION NUMBER: 1993:539588 CAPLUS Full-text
DOCUMENT NUMBER: 119:139588
ORIGINAL REFERENCE NO.: 119:25059a,25062a
TITLE: New ligands for asymmetric dihydroxylation: multiple cinchona alkaloid units attached to a central heterocyclic core
INVENTOR(S): Hartung, Jens; Sharpless, K. Barry
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
SOURCE: PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9307142	A1	19930415	WO 1992-US8544	19921006 <--
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
US 5260461	A	19931109	US 1991-775683	19911010 <--
EP 608307	A1	19940803	EP 1992-921493	19921006 <--
EP 608307	B1	20040204		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
JP 07500323	T	19950112	JP 1993-507170	19921006 <--
JP 3982829	B2	20070926		
CA 2120919	C	20030701	CA 1992-2120919	19921006 <--
AT 258932	T	20040215	AT 1992-921493	19921006 <--
ES 2215989	T3	20041016	ES 1992-921493	19921006 <--

PRIORITY APPLN. INFO.:		
	US 1991-775683	A 19911010 <--
	US 1988-142692	B2 19880111 <--
	US 1988-159064	A2 19880223 <--
	US 1988-250378	A2 19880928 <--
	US 1990-512934	A2 19900423 <--
	WO 1991-US2778	W 19910423 <--
	US 1991-699183	A2

19910513 <--

WO 1992-US8544 W

19921006 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

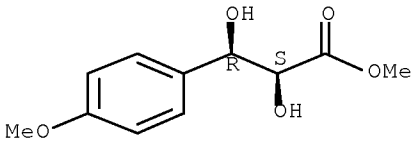
IT 122517-80-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 122517-80-0 CAPLUS

CN Benzenepropanoic acid, α,β-dihydroxy-4-methoxy-, methyl ester, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
(8 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

AB For the purpose of carrying out smoothly enzymic reaction of water-insol. substrates in organic solvents, a new type of immobilized enzyme, a lipid-lipase aggregate, was developed. To prepare various kinds of lipid-lipase aggregates, 27 kinds of dialkyl ether-type phospholipid analogs were newly synthesized and used for the preparation of aggregates with lipase. Thus obtained lipid-lipase aggregates catalyzed the enantioselective hydrolysis of the (±)-α-acyloxy ester 2 much more efficiently than lipase immobilized with synthetic prepolymer (ENTP-4000) in water-saturated iso-Pr ether. The reaction time became much shorter (2 to 3 days for completion as compared with 21 days) and the chemical and optical yields of the reaction products were high.

ACCESSION NUMBER: 1992:486257 CAPLUS Full-text

DOCUMENT NUMBER: 117:86257

ORIGINAL REFERENCE NO.: 117:14967a,14970a

TITLE: A lipid-lipase aggregate with ether linkage as a new type of immobilized enzyme for enantioselective hydrolysis in organic solvents

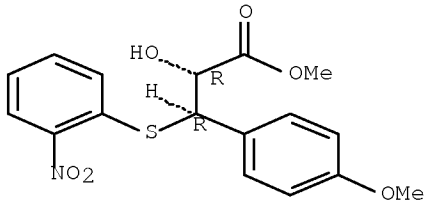
AUTHOR(S): Akita, Hiroyuki; Umezawa, Isao; Matsukura, Hiroko; Oishi, Takeshi

CORPORATE SOURCE: Sch. Pharm. Sci., Toho Univ., Funabashi, 274, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1992),

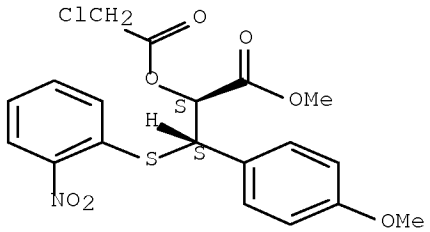
40(2), 318-24
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 125354-94-1P 125354-96-3P
RL: PREP (Preparation)
(preparation of, by lipid-lipase aggregate hydrolysis in solvents)
RN 125354-94-1 CAPLUS
CN Benzenepropanoic acid, α-hydroxy-4-methoxy-β-[(2-nitrophenyl)thio]-, methyl ester, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



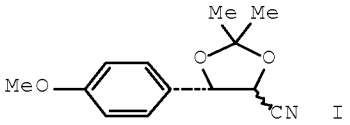
RN 125354-96-3 CAPLUS
CN Benzenepropanoic acid, α-[(chloroacetyl)oxy]-4-methoxy-β-[(2-nitrophenyl)thio]-, methyl ester, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD
(7 CITINGS)

L14 ANSWER 6 OF 10 CAPLUS
GI



I

AB Cyanohydrins of aromatic aldehydes can be obtained in high optical purity using the Inoue dipeptide catalyst system and converted into enantiomerically and diastereochem. pure threo-3-aryl-2,3-dihydroxypropanoic acid derivs. via a route which involves a base-catalyzed equilibration of the acetonides of the cyano diols. Thus, (R)-(+)-4-MeOC6H4CH(OH)CN was hydrogenated over Ni and treated sequentially with NaHSO3, NaCN, and (MeO)2CMe2 and acid to give cis- and trans-dioxolanes I. Hydrolysis and epimerization of I with KOH in EtOH and then treatment with aqueous acid followed by HCl-MeOH gave the enantiomerically pure threo-4-MeOC6H4CH(OH)CH(OH)CO2Me (II). II was successfully converted into diltiazem.

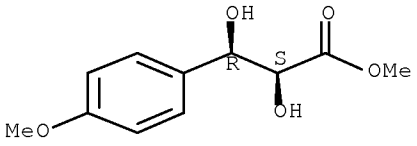
ACCESSION NUMBER: 1990:406196 CAPLUS Full-text
DOCUMENT NUMBER: 113:6196
ORIGINAL REFERENCE NO.: 113:1203a,1206a
TITLE: Synthesis of threo-3-aryl-2,3-dihydroxypropanoic acid derivatives with high optical purity
AUTHOR(S): Matthews, Barry R.; Gountzos, Helen; Jackson, W. Roy; Watson, Keith G.
CORPORATE SOURCE: Dep. Chem., Monash Univ., Clayton, 3168, Australia
SOURCE: Tetrahedron Letters (1989), 30(38), 5157-8
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:6196

IT 122517-80-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and conversion of, to diltiazem)

RN 122517-80-0 CAPLUS

CN Benzenepropanoic acid, α,β-dihydroxy-4-methoxy-, methyl ester, (αS,βR)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OS.CITING REF COUNT: 38 THERE ARE 38 CAPLUS RECORDS THAT CITE THIS RECORD (39 CITINGS)

L14 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN

AB Vicinal diols are prepared by asym. dihydroxylation of olefins in the presence of a chiral ligand, an Os-containing catalyst, an amine oxide, an organic solvent, and H2O. OsO4 was injected into a solution of trans-stilbene, hydroquinidine p-chlorobenzoate, and N-methylmorpholine N-oxide in Me2CO and H2O at 0-4° with shaking, Na2S2O5 added, and the mixture worked up to give 55% (R,R)-PhCH(OH)CH(OH)Ph of 99% enantiomeric excess. Preparation of dihydroquinidine derivs. and their recovery were also given. Asym. dihydroxylations of trans-3-hexene, 1-phenylcyclohexene, β-methylstyrene, and Me (E)-4-methoxycinnamate were also given.

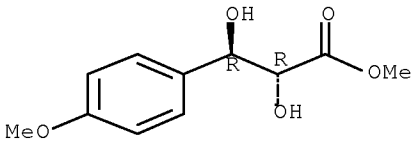
ACCESSION NUMBER: 1990:75971 CAPLUS Full-text
DOCUMENT NUMBER: 112:75971
ORIGINAL REFERENCE NO.: 112:12975a,12978a
TITLE: Ligand-accelerated catalytic asymmetric dihydroxylation
INVENTOR(S): Marko, Istvan E.; Sharpless, K. Barry
PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8906225	A1	19890713	WO 1989-US86	19890110 <--
W: JP				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 4871855	A	19891003	US 1988-159068	19880223 <--
US 4965364	A	19901023	US 1988-250378	19880928 <--
EP 395729	A1	19901107	EP 1989-901900	19890110 <--
EP 395729	B1	19950927		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 03503885	T	19910829	JP 1989-501814	19890110 <--
JP 3153540	B2	20010409		
EP 658532	A1	19950621	EP 1995-200458	19890110 <--
EP 658532	B1	19990407		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 128449	T	19951015	AT 1989-901900	19890110 <--
AT 178578	T	19990415	AT 1995-200458	19890110 <--
JP 2001192383	A	20010717	JP 2000-335775	19890110 <--
CA 1338314	C	19960507	CA 1989-587964	19890111 <--

PRIORITY APPLN. INFO.: US 1988-142692 A

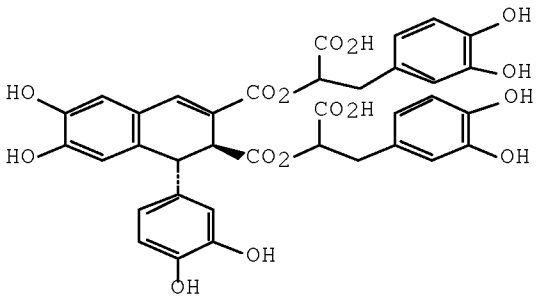
19880111 <--
US 1988-159068 A
19880223 <--
US 1988-250378 A
19880928 <--
EP 1989-901900 A3
19890110 <--
JP 1989-501814 A3
19890110 <--
WO 1989-US86 W
19890110 <--
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
IT 125073-64-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 125073-64-5 CAPLUS
CN Benzenepropanoic acid, α,β-dihydroxy-4-methoxy-, methyl ester, (αR,βR)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



OS.CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS
RECORD (20 CITINGS)

L14 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
GI



I

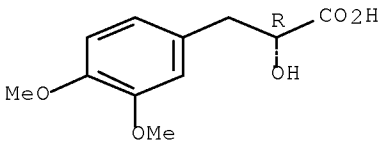
AB A rosmarinic acid dimer named rabdosiin (I) was isolated from the stem of R. japonica (Labiatae). Its structure was determined including the absolute configuration of 4 asym. centers.

ACCESSION NUMBER: 1989:92028 CAPLUS Full-text
DOCUMENT NUMBER: 110:92028
ORIGINAL REFERENCE NO.: 110:15153a,15156a
TITLE: Rabdosiin, a new rosmarinic acid dimer with a lignan skeleton, from Rabdosia japonica
AUTHOR(S): Agata, Isao; Hatano, Tsutomu; Nishibe, Sansei; Okuda, Takuo
CORPORATE SOURCE: Fac. Pharm. Sci., Higashi Nippon Gakuen Univ., Hokkaido, 061-02, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1988), 36(8), 3223-5
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:92028

IT 54844-37-0P, (R)-3-(3,4-Dimethoxyphenyl)lactic acid 119152-55-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

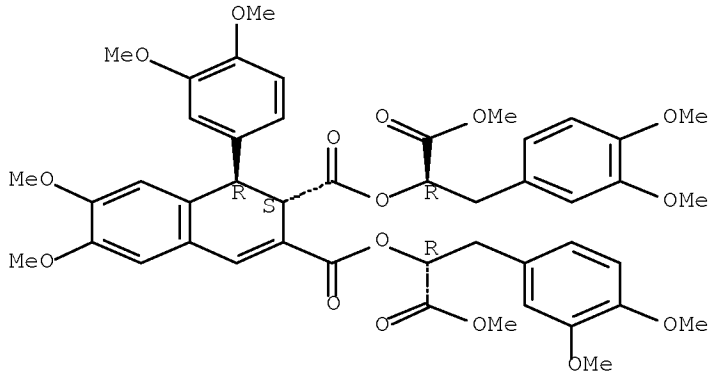
RN 54844-37-0 CAPLUS
CN Benzenepropanoic acid, α-hydroxy-3,4-dimethoxy-, (αR)- (CA INDEX NAME)

Absolute stereochemistry.



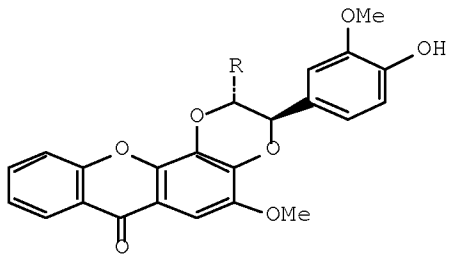
RN 119152-55-5 CAPLUS
CN 2,3-Naphthalenedicarboxylic acid, 1-(3,4-dimethoxyphenyl)-1,2-dihydro-6,7-dimethoxy-, bis[1-[(3,4-dimethoxyphenyl)methyl]-2-methoxy-2-oxoethyl] ester, [1R-[1α,2β(R*),3(R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS
RECORD (12 CITINGS)

L14 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
GI



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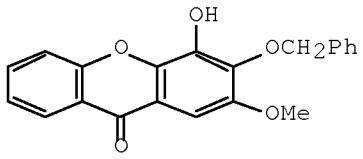

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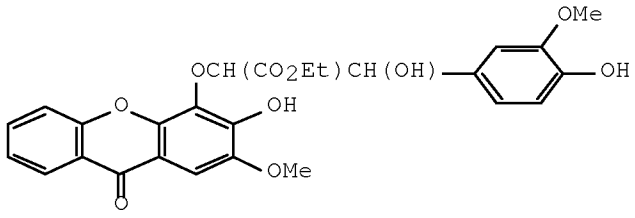


IV

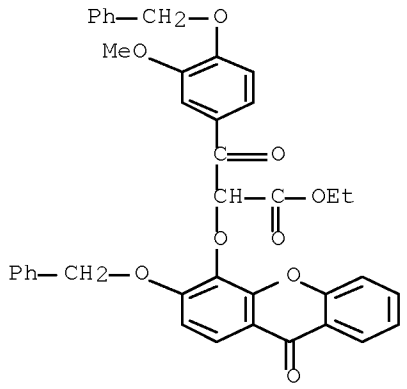
AB Kielcorin (I; R = CH2OH) was prepared from methoxyxanthone II and 3,4-MeO(PhCH2O)C6H3COCHBrCO2Et (III). Condensation of II and III followed by selective hydrogenation gave a mixture of erythro- and threo-alcs. IV. Ring closure of IV with POCl3 gave trans-I (R = CO2Et). Reduction of I (R = CO2Et) with LiAlH4 gave kielcorin (I; R = CH2OH).

ACCESSION NUMBER: 1987:575707 CAPLUS Full-text
DOCUMENT NUMBER: 107:175707
ORIGINAL REFERENCE NO.: 107:28195a,28198a
TITLE: Synthesis of kielcorin
AUTHOR(S): Vishwakarma, R. A.; Kapil, R. S.; Popli, S. P.
CORPORATE SOURCE: Cent. Drug Res. Inst., Lucknow, 226 001, India

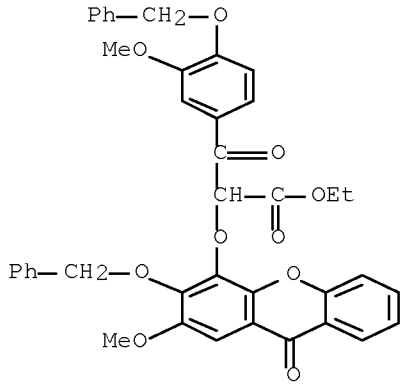
SOURCE: Indian Journal of Chemistry, Section B: Organic
Chemistry Including Medicinal Chemistry (1986), 25B(10), 1021-3
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:175707

IT 110597-42-7P 110597-48-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and catalytic hydrogenation of)

RN 110597-42-7 CAPLUS
CN Benzenepropanoic acid, 3-methoxy-β-oxo-α-[[9-oxo-3-(phenylmethoxy)-9H-xanthen-4-yl]oxy]-4-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)



RN 110597-48-3 CAPLUS
CN Benzenepropanoic acid, 3-methoxy-α-[[2-methoxy-9-oxo-3-(phenylmethoxy)-9H-xanthen-4-yl]oxy]-β-oxo-4-(phenylmethoxy)-, ethyl ester (CA INDEX NAME)

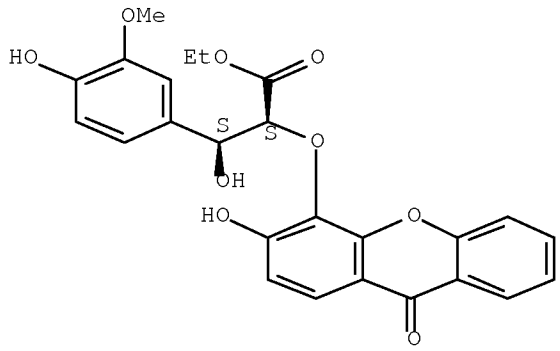


IT 110597-43-8P 110597-49-4P 110597-50-7P
110618-96-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, with phosphorus oxychloride)

RN 110597-43-8 CAPLUS

CN Benzenepropanoic acid, β,4-dihydroxy-α-[(3-hydroxy-9-oxo-9H-xanthen-4-yl)oxy]-3-methoxy-, ethyl ester, (αR,βR)-rel- (CA INDEX NAME)

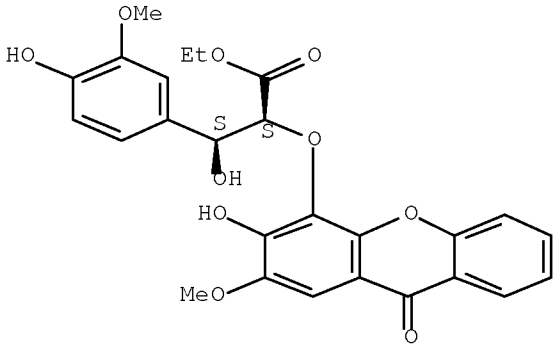
Relative stereochemistry.



RN 110597-49-4 CAPLUS

CN Benzenepropanoic acid, β,4-dihydroxy-α-[(3-hydroxy-2-methoxy-9-oxo-9H-xanthen-4-yl)oxy]-3-methoxy-, ethyl ester, (αR,βR)-rel- (CA INDEX NAME)

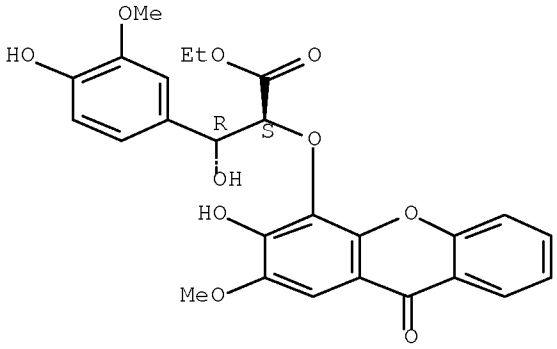
Relative stereochemistry.



RN 110597-50-7 CAPLUS

CN Benzenepropanoic acid, β,4-dihydroxy-α-[(3-hydroxy-2-methoxy-9-oxo-9H-xanthen-4-yl)oxy]-3-methoxy-, ethyl ester, (αR,βS)-rel- (CA INDEX NAME)

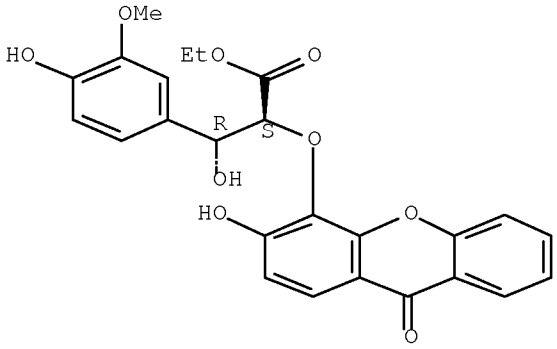
Relative stereochemistry.



RN 110618-96-7 CAPLUS

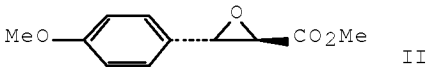
CN Benzenepropanoic acid, β,4-dihydroxy-α-[(3-hydroxy-9-oxo-9H-xanthen-4-yl)oxy]-3-methoxy-, ethyl ester, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L14 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2010 ACS on STN
GI



II

AB The reactivity and stereoselectivity of the epoxide-ring cleavage of trans-3-arylglycidate esters with 2-O2NC6H4SH (I) were influenced markedly by the electronic nature of substituents on the aryl ring. Electron-donating substituents increased the reactivity and favored the formation of cis-opening products, whereas electron-withdrawing groups had the opposite effect. The cis ring cleavage of the 4-methoxyphenylglycidate II with I was catalyzed by Sn compds. (e.g., SnCl4) to give threo-4-MeOC6H4CH(SC6H4NO2-2)CH(OH)CO2Me, a key intermediate in the synthesis of diltiazem. The transition state for this reaction involves coordination of Sn to both I and the epoxy O of II.

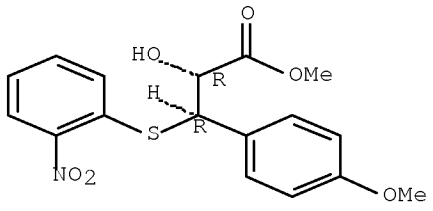
ACCESSION NUMBER: 1985:45260 CAPLUS Full-text
DOCUMENT NUMBER: 102:45260
ORIGINAL REFERENCE NO.: 102:7105a,7108a
TITLE: Reaction of 3-phenylglycidic esters. Part 1. Stereoselective opening of the oxirane ring of trans-3-phenylglycidic esters with 2-nitrothiophenols and the effect of various catalysts thereon
AUTHOR(S): Hashiyama, Tomiki; Inoue, Hirozumi; Konda, Mikihiko; Takeda, Mikio
CORPORATE SOURCE: Org. Chem. Res. Lab., Tanabe Seiyaku Co., Ltd., Saitama, Japan
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1984), (8), 1725-32
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:45260

IT 84056-03-1P 86603-47-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acetylation of)

RN 84056-03-1 CAPLUS

CN Benzenepropanoic acid, α-hydroxy-4-methoxy-β-[(2-nitrophenyl)thio]-, methyl ester, (αR,βR)-rel- (CA INDEX NAME)

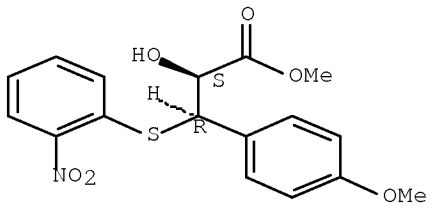
Relative stereochemistry.



RN 86603-47-6 CAPLUS

CN Benzenepropanoic acid, α-hydroxy-4-methoxy-β-[(2-nitrophenyl)thio]-, methyl ester, (αR,βS)-rel- (CA INDEX NAME)

Relative stereochemistry.



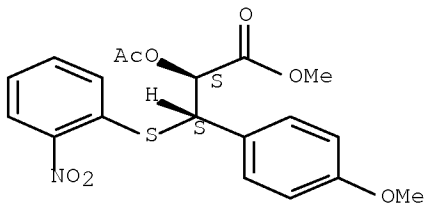
IT 94098-21-2P 94098-22-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 94098-21-2 CAPLUS

CN Benzenepropanoic acid, α-(acetyloxy)-4-methoxy-β-[(2-nitrophenyl)thio]-, methyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

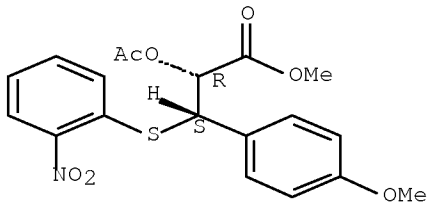
Relative stereochemistry.



RN 94098-22-3 CAPLUS

CN Benzenepropanoic acid, α-(acetyloxy)-4-methoxy-β-[(2-nitrophenyl)thio]-, methyl ester, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L15 34 S L11 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L16 24 S L12 NOT L14

L16 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2010 ACS on STN
AB The present invention relates to certain phenalkyloxy-Ph derivs. and analogs, to a process for preparing such compds., having the utility in clin. conditions associated with insulin resistance, to methods for their therapeutic use and to pharmaceutical compns. containing them. Thus, the several step preparation of N'-(2,4-difluorophenyl)-N-(2-{4-[(2S)-2-ethoxy-3-hydroxypropyl]phenyl}ethyl)-N-heptylurea starting from Et (2S)-2-ethoxy-3-(4-hydroxyphenyl)propanoate is described. The biol. activity of the compds. prepared is also given.

ACCESSION NUMBER: 2002:927392 CAPLUS Full-text
DOCUMENT NUMBER: 138:13961
TITLE: New phenylalkyloxy-phenyl derivatives
INVENTOR(S): Faegerhag, Jonas; Li, Lanna; Lindstedt, Eva-Lotte
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002096863	A1	20021205	WO 2002-SE1039	20020530 <--

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2448645	A1	20021205	CA 2002-2448645	20020530 <--
AU 2002256960	A1	20021209	AU 2002-256960	20020530 <--
AU 2002256960	B2	20071220		
NZ 529814	A	20031219	NZ 2002-529814	20020530 <--
EP 1404649	A1	20040407	EP 2002-726546	20020530 <--
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BR 2002010123	A	20040608	BR 2002-10123	20020530 <--
CN 1535261	A	20041006	CN 2002-814947	20020530 <--
CN 1275940	C	20060920		
JP 2004534045	T	20041111	JP 2003-500043	20020530 <--
JP 4173799	B2	20081029		
US 20040176444	A1	20040909	US 2003-478810	20031126 <--
US 7241923	B2	20070710		
ZA 2003009211	A	20050228	ZA 2003-9211	20031126 <--
MX 2003011004	A	20040227	MX 2003-11004	20031128 <--
HK 1068607	A1	20070504	HK 2005-101037	20050207 <--
PRIORITY APPLN. INFO.:			SE 2001-1978 A	20010601 <--
			WO 2002-SE1039 W	20020530 <--

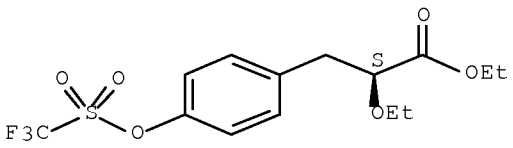
OTHER SOURCE(S): CASREACT 138:13961; MARPAT 138:13961

IT 477546-90-0P, Ethyl (2S)-2-ethoxy-3-(4-[[(trifluoromethyl)sulfonyl]oxy]phenyl)propanoate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with tert-Bu acrylate)

RN 477546-90-0 CAPLUS

CN Benzenepropanoic acid, α-ethoxy-4-[[(trifluoromethyl)sulfonyl]oxy]-,
ethyl ester, (αS)- (CA INDEX NAME)

Absolute stereochemistry.



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		SET	EXPAND CONTINUOUS
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L19	0	S	L18 NOT (L14)
L20	17	S	L17 AND (?HYDROGENATION?)
L21	14	S	L20 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
		E	SHIMIZU HIDEO?/AU
L22	319	S	E13-E14
L23	1	S	L22 AND L3
L24	0	S	L23 NOT L14
L25	18	S	L22 AND (?HYDROGENATION?)
L26	5	S	L25 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L27	4	S	L26 NOT L21
		E	FUJIWARA TAKAHIRO?/AU
L28	135	S	E25-E26
L29	1	S	L28 AND L3
L30	0	S	L29 NOT L14
L31	5	S	L28 AND (?HYDROGENATION?)
L32	2	S	L31 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L33	1	S	L32 NOT (L21 OR L27)
		E	INO YASUNORI//AU
L34	11	S	E37-E38
L35	1	S	L34 AND L3
L36	0	S	L35 NOT L14
L37	3	S	L34 AND (?HYDROGENATION?)
L38	1	S	L37 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)
L39	0	S	L38 NOT (L21 OR L27 OR L33)